300

Broadcasting Network
(Cable, Terrestrial, Satellite,
Internet) or Local TV System

301

Backchannel requests
for program classification
information

TV Channels and program
classification information

Set Top Box

TV Set

120

Classification Table 1
Categories of programs being received

Channel 2: Monday football, sports, Madden
Channel 3: Star Wars, movie, Lucas, sci-fi
Channel 4: Mummies, Program: Pharos Parade
Channel 5 ... etc

307

User
Interaction

303

Classification Table 2
Categories of programs in
TV Program Guide

TV Program Guide, EPG.

Categories as above
for programs in table
at right

Traditional guide to
TV programs past
and future

309

306

Classification Table 3
Categories of programs
recorded in local storage

Programs recorded in
local storage, EPG stored.

Categories as above
for programs in table
at right

MPEG-2 video or
other format

308

305

302

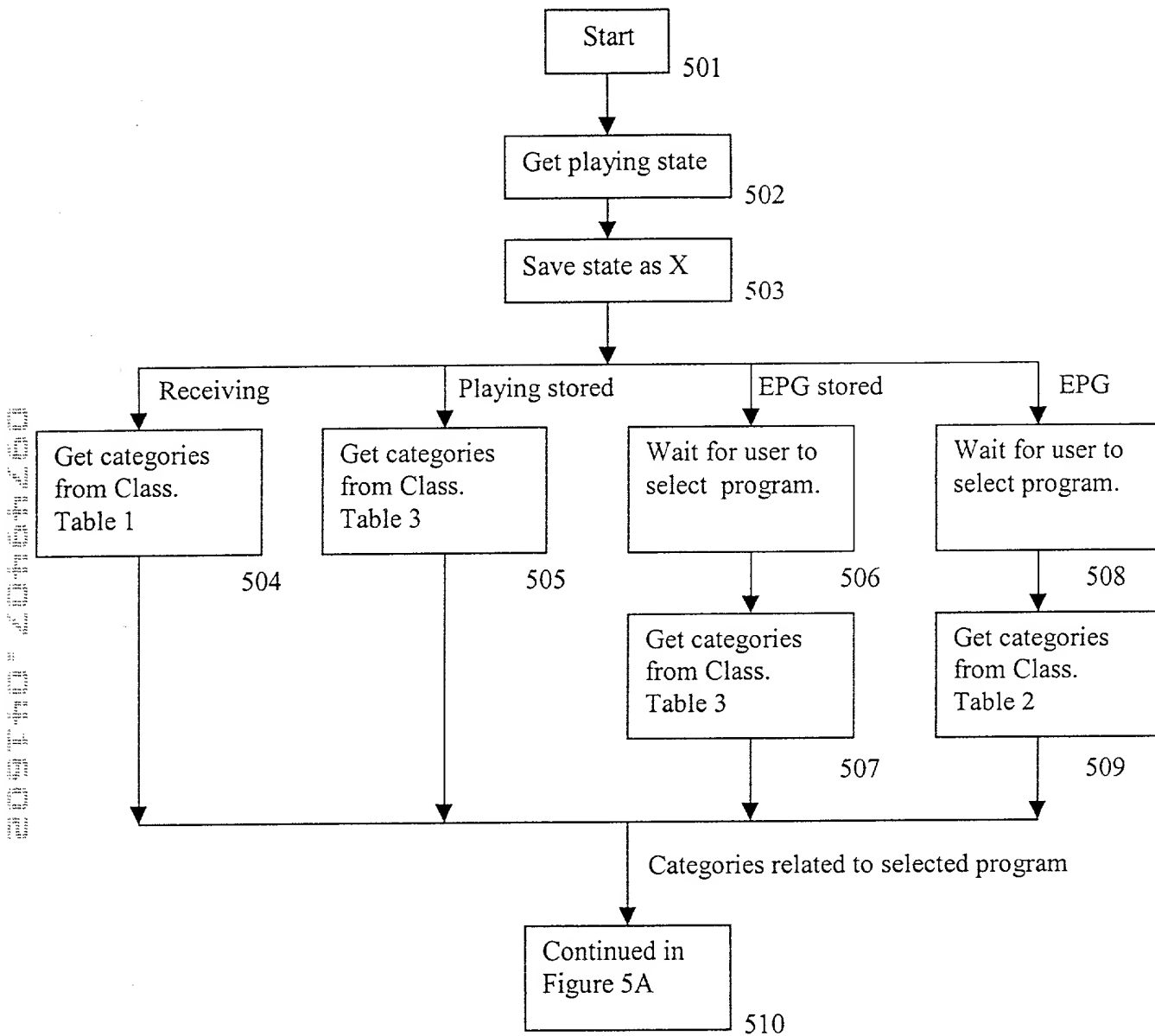Figure 3: One possible data layout for direct channel hyperlinking

```
                          ┌──────────┐
                          │  Start   │
                          └────┬─────┘  501
                               │
                               ▼
                       ┌──────────────────┐
                       │ Get playing state │
                       └────────┬─────────┘  502
                                │
                                ▼
                       ┌──────────────────┐
                       │  Save state as X  │
                       └────────┬─────────┘  503
                                │
```

Receiving   Playing stored   EPG stored   EPG

┌──────────────┐   ┌──────────────┐   ┌──────────────┐   ┌──────────────┐
│ Get categories│   │ Get categories│   │ Wait for user to│ │ Wait for user to│
│ from Class.   │   │ from Class.   │   │ select program. │ │ select program. │
│ Table 1   │   │ Table 3   │   │   │ │   │
└──────┬───────┘   └──────┬───────┘   └────────┬──────┘   └────────┬──────┘
       504   505   506   508
       │   │   │   │
       │   │   ▼   ▼
       │   │   ┌──────────────┐   ┌──────────────┐
       │   │   │ Get categories│   │ Get categories│
       │   │   │ from Class.   │   │ from Class.   │
       │   │   │ Table 3   │   │ Table 2   │
       │   │   └──────┬───────┘   └──────┬───────┘
       │   │   507   509
       ▼   ▼   ▼   ▼

Categories related to selected program

                       ┌──────────────┐
                       │ Continued in │
                       │ Figure 5A   │
                       └──────────────┘ 510

Figure 5: AlternativeHyperlinking
```